KRUGLIKOV, S.S.; KUDRYAVTSEV, N.T.; ANTONOV, A.Ya.; DRIBINSKIY, A.V.

Use of a retating disk electrode for the study of the mechanism of surface leveling in electrodeposition of metals. Trudy MKHTI no.44: 74-79 *64.

(MIRA 18:1)

KUDRYAVTSEV, N.T.; TSUPAK, T.Ye.; PSHILUSSKI, Ya.B.

Electrolytic deposition of nickel from sulfate-chloride solutions in the presence of aminoacetic acid. Trudy MKHTI no.44:80-85 '64.

(MIRA 18:1)

KUDRYAVISEV, N.T.; SMIRNOVA, T.G.

Electrodeposition of iron from sulfate electrolytes in the presence of aminoacetic acid-glycocoll. Trudy MKHII no.4486-90 164. (MIRA 1881)

Electrolytic deposition of iron-chromium alloys. Tbid. 102-107

KUDRYAVTSEV, N.T.; FIRGER, S.M.; DOKINA, N.N.

Electrodeposition of a cadmium-nickel alloy. Trudy MKHTI no.44191-95
164. (MIRA 18:1)

KUDRYAVTSEV, N.T.; ISUPAK, T.Ys.

Investigating the conditions of the electrolytic produ

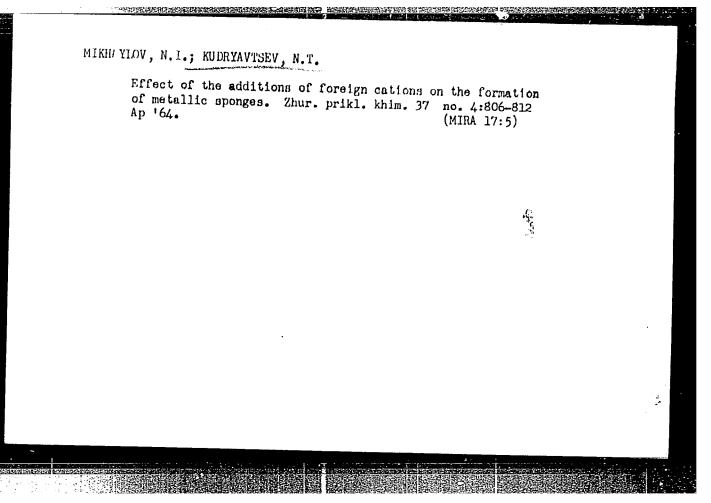
Investigating the conditions of the electrolytic production of nickel-chromium alloys from solutions of metal sulfates in the presence of aminoacetic acid. Trudy MKHTI no.44:96-101 164.

(MIRA 1881)

NOTION: Kudryavtsev, N. T.; Tsupak, T. Ye. INTIE: Investigation of conditions for obtaining a nickel-chronium and electroly- tically from sulfate solutions of the metals in the presence of glycine. SOURCE: Ivuz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1964, 64-69 SOURCE: nickel chronium alloy, nickel chronium electroplating, electroplating	WHOR: Kudryavtsev, N. T.; Tsupak, T. Ye. WHOR: Kudryavtsev, N. T.; Tsupak, T. Ye. WHOR: Investigation of conditions for obtaining a nickel-chromium and pelectroly- tically from sulfate solutions of the metals in the presence of glycine. SOURCE: Ivuz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1964, 64-69 SOURCE: Ivuz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1964, 64-69 TOPIC TAGS: nickel chromium alloy, nickel chromium electroplating, electrolyte concen- condition, chromium glycine complex, nickel sulfate, glycine, electrolyte coating, tration, current yield, pitting, pitting prevention, protective decorative coating, tration, current yield, pitting, pitting prevention, protection, microbardness ductility, brittleness, normetallic inclusion, corrosion protection, microbardness ductility, brittleness, normetallic inclusion, corrosion from solutions containing ABSTRACT: The conditions for electroplating Ni Cr alloys from solution vere trivalent chromium complexed with glycine, nickel sulfate and from slyctine vere trivalent chromium complexed with glycine, nickel sulfate and from slyctine vere trivalent chromium complexed with glycine, nickel sulfate and from slyctine vere trivalent chromium complexed with glycine, nickel sulfate and from slyctine vere trivalent chromium complexed with glycine, nickel sulfate and from slyctine vere trivalent chromium complexed with glycine, nickel sulfate and from slyctine vere trivalent chromium complexed with glycine, nickel sulfate and from slyctine vere trivalent chromium complexed with glycine, nickel sulfate and from slyctine vere	AUTHOR: Kudryavtsev, N. T.; Tsupak, T. Ye. AUTHOR: Kudryavtsev, N. T.; Tsupak, T. Ye. TITIE: Investigation of conditions for obtaining a nickel-chronium and pelectroly- tically from sulfate solutions of the metals in the presence of glycine. SOURCE: Iviz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1964, 64-69 SOURCE: Iviz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1964, 64-69 TOPIC TAGS: nickel chromium alloy, nickel chromium electroplating, electroplating condition, chromium glycine complex, nickel sulfate, glycine, electrolyte concen- condition, chromium glycine complex, nickel sulfate, glycine, nicrobardness tration, current yield, pitting, pitting prevention, protective decorative coating, tration, current yield, pitting, pitting prevention, protection, microbardness ductility, brittleness, normetallic inclusion, corrosion protection, microbardness ductility, brittleness, normetallic inclusion, nickel sulfate and from clycine vere trivalent chromium complexed with glycine, nickel sulfate and from clycine vere trivalent chromium complexed with glycine, nickel sulfate and from clycine vere trivalent chromium complexed with glycine, nickel sulfate and from clycine vere trivalent chromium complexed with glycine, nickel sulfate and from clycine vere trivalent chromium complexed with glycine, nickel sulfate and from clycine vere trivalent chromium complexed with glycine, nickel sulfate and from clycine containing trivalent chromium complexed with glycine, nickel sulfate and from clycine containing trivalent chromium complexed with glycine, nickel sulfate and from clycine containing trivalent chromium complexed with glycine, nickel sulfate and from clycine containing trivalent chromium complexed with glycine, nickel sulfate and from clycine containing trivalent chromium complexed with glycine, nickel sulfate and from clycine.		The second secon
NOTION: Kudryavtsev, N. T.; Tsupak, T. Ye. NOTICE: Investigation of conditions for obtaining a nickel-chronium and pelectroly- tically from sulfate solutions of the metals in the presence of glycine. SOURCE: Ivuz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1964, 64-69 SOURCE: Ivuz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1964, 64-69 TOPIC TAGS: nickel chronium alloy, nickel chronium electroplating, electrolyto concen- condition, chromium glycine complex, nickel sulfate, glycine, electrolyto content, tration, current yield, pitting, pitting prevention, protective decorative coating, tration, current yield, pitting, pitting prevention, protective decorative containing tration, brittleness, normetallic inclusion, corrosion protection, microbardness ductility, brittleness, normetallic inclusion, nickel sulfate and from clycine were trivalent chronium complexed with glycine, nickel sulfate and from clycine were trivalent chronium complexed with glycine, nickel sulfate and from clycine vere studied in detail. Increasing the nickel concentration (Cr s 1 im. equiv/1.) et studied in detail. Increasing the nickel concentration (cr s 1 im. equiv/1.) increasing the temperature reduced the Cr content of the alloy to about (%; and increasing	NOTION: Kudryavtsev, N. T.; Tsupak, T. Ye. NOTICE: Investigation of conditions for obtaining a nickel-chronical conditions of the metals in the presence of glycine. Source: Ivuz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1964, 64-69 SOURCE: Ivuz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1964, 64-69 TOPIC TAGS: nickel chronium alloy, nickel chronium electroplating, electroplating condition, chromium glycine complex, nickel sulfate, glycine, electrolyte concentration, current yield, pitting, pitting prevention, protective decorative coating, tration, current yield, pitting, pitting prevention, protective decorative coating, tration, current yield, pitting, pitting prevention, protection, microbardness ductility, brittleness, nonmetallic inclusion, corrosion protection, microbardness ductility, brittleness, nonmetallic inclusion, nickel sulfate and from glycine were trivalent chronium complexed with glycine, nickel sulfate and from glycine were trivalent chronium complexed with glycine, nickel sulfate and from glycine were studied in detail. Increasing the nickel concentration (Cr s 1 km. equiv/1.) at the studied in detail. Increasing the nickel concentration (cr s 1 km. equiv/1.) at the studied in detail. Increasing the nickel concentration (cr s 1 km. equiv/1.) at the studied in detail.	AUTHOR: Kudryavtsev, N. T.; Tsupak, T. Ye. ITTIE: Investigation of conditions for obtaining a nickel-chronical and electroly- tically from sulfate solutions of the metals in the presence of glycine. SOURCE: Ivuz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1964, 64-69 TOPIC TAGS: nickel chromium alloy, nickel chromium electroplating, electroplating condition, chromium glycine complex, nickel sulfate, glycine, electrolyte concen- condition, current yield, pitting, pitting prevention, protective decorative coating, tration, current yield, pitting, pitting prevention, protection, nicrohardness ductility, brittleness, normetallic inclusion, corrosion protection, nicrohardness ABSTRACT: The conditions for electroplating Ni-Cr alloys from solutions containing trivalent chromium complexed with glycine, nickel sulfate and from clycine were trivalent chromium complexed with glycine, nickel sulfate and from clycine were studied in detail. Increasing the nickel concentration (Cr s l vo. equiv/l.) at . studied in detail. Increasing the nickel concentration (Cr s l vo. equiv/l.) at . studied in detail. Thereasing the nickel concentration (Cr s l vo. equiv/l.) at . studied in detail. Thereasing the nickel concentration (Cr s l vo. equiv/l.) at . studied in detail. Thereasing the nickel concentration (Cr s l vo. equiv/l.) at . studied in detail. Thereasing the nickel concentration (Cr s l vo. equiv/l.) at . studied in detail. Thereasing the nickel concentration (Cr s l vo. equiv/l.) at . studied in detail. Thereasing the nickel concentration (Cr s l vo. equiv/l.) at .	A Commission of the Commission	5/0153/64/007/01/0084/0089
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SOURCE: Ivuz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1967, 64-59 SOURCE: Ivuz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1967, 64-59 TOPIC TAGS: nickel chromium alloy, nickel chromium electroplating, electroplating concentration, chromium glycine complex, nickel sulfate, glycine, electrolyto concentration, current yield, pitting, pitting prevention, protective decorative coating, tration, current yield, pitting, pitting prevention, protective decorative coating, tration, current yield, pitting, pitting prevention, protective decorative coating, tration, current yield, pitting, pitting prevention, protective decorative coatining duetility, brittleness, normetallic inclusion, corrosion protection, microbardness duetility, brittleness, normetallic inclusion, nickel sulfate and free clycine were trivalent chromium complexed with glycine, nickel sulfate and free clycine were trivalent chromium complexed with glycine, nickel sulfate and free clycine were studied in detail. Increasing the nickel concentration (Cr s 1 protection) at a studied in detail. Increasing the nickel concentration (Cr s 1 protection) and increasing studied in detail. Increasing the nickel concentration (Cr s 1 protection) and increasing studied in detail. Increasing the nickel concentration (Cr s 1 protection) and increasing studied in detail.	SOURCE: Ivuz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1967, 64-09 SOURCE: Ivuz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1967, 64-09 TOPIC TAGS: nickel chromium alloy, nickel chromium electroplating, electroplating concentration, chromium glycine complex, nickel sulfate, glycine, electrolyto concentration, current yield, pitting, pitting prevention, protective decorative coating, tration, current yield, pitting, pitting prevention, protective decorative coating, tration, current yield, pitting, pitting prevention, protection, microbardness duetility, brittleness, normetallic inclusion, corrosion protection, microbardness duetility, brittleness, normetallic inclusion, nickel sulfate and free clycine were trivalent chromium complexed with glycine, nickel sulfate and free clycine were trivalent chromium complexed with glycine, nickel sulfate and free clycine were studied in detail. Increasing the nickel concentration (Cr s 1 pr. oquiv/l.) at the studied in detail. Increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l.) and increasing the nickel concentration (Cr s 1 pr. oquiv/l	SOURCE: Ivuz. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 1, 1964, 64-65 TOPIC TAGS: nickel chromium alloy, nickel chromium electroplating, electrolyto concencention, chromium glycine complex, nickel sulfate, glycine, electrolyto concentration, current yield, pitting, pitting prevention, protective decorative coating, tration, current yield, pitting, pitting prevention, corrosion protection, microbardness ductility, brittleness, nonmetallic inclusion, nickel sulfate and from glycine vere trivalent chromium complexed with glycine, nickel sulfate and from equiv/1.) at the studied in detail. Increasing the nickel concentration (Cr a 1 pm. equiv/1.) at the studied in detail. Increasing the nickel concentration (Ni = 1 gm. equiv/1.) to 2 gm. equivs/1. increased the Cr chromium concentration (Ni = 1 gm. equiv/1.) to 2 gm. equivs/1. increased the Cr chromium concentration (Ni = 1 gm. equiv/1.) to 2 gm. equivs/1. increased the Cr chromium concentration (Ni = 1 gm. equiv/1.) to 2 gm. equivs/1. increased the Cr chromium concentration in the electrolyto, lowering pil and temperature of the relative Cr concentration in the electrolyto, lowering pil and temperature of the	WIHOR: Kudryavtsev, N. T.; Tsupak, T	. ie.
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ACCESSION NR: AP4037230 electrolyte) lower the current yield. The higher the nickel and chromical coacentrations the lesser the effects of these factors. Increasing glyclas in the complex from Cr.4G1H to Cr.6G1H has little effect. The optimus com liter a nor electroplating a Ni-Cr alloy containing 10-16% Cr (17-30% current yi.) parts: 02 as Cr.4G1H--2 gm.equiv/1; Ni--2 gm.equiv./1; free glycine--0.2/ gr. quiv./1.; 2.5-2.7; electrolyte temperature -- 30-400; current density -- 15-30 ama/da2; graphice anode enclosed in ceramic diaphragm; anolyte--10% HoSO4; and 0.05 gm/1 sodium lauryl sulfate to prevent pitting. These electrodeposits up to 3 micross in thickness can be used as protective decorative coatings without subsequent polishing in place of chromium platings. The 10-16% chromium-containing Ni-Cr deposits of 5 microns thickness are semi-bright, 10 microns deposits are gray but still ductile; and 20 micron deposits are brittle due to nonmetallic inclusions. These 5 micron deposits give corrosion projection equivalent to pure niebel contings. Their migrohardness is 350-450 kg/mm2. Orig. art. hus: 3 figures and 2 tables. ASSOCIATION: Moskovskiy khimiko-tekhnologichoskiy institut im. D. I. Hendeleyeva Kafedra elektrokhimii (Moscow Chemical Tachnological Institute Electrochemical Department)

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Some regularities of the cathodic process in the electrodeposition of iron-zinc alloy from a boron hydrofluoric electrolyte. Zhur. prikl. khim. 37 no.9:1946-1951 S tol. (MINA 17:10)

MIKHAYLOV, N.I.; KUDRYAVTSEV, N.T.

Electrodes for determining the limiting current in the electrodeposition of iron. Zhur. prikl. khim. 37 no.12: 2615-2619 D'64.

(MIRA 18:3)

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KUDRYAVTSEV, N.T.; POTAPOV, I.I.; SOROKINA, N.G.

Investigating the electrolytic deposition of chromium from solutions of its trivalent compounds. Zashch. met. 1 no.3: 304-307 My-Je 165. (MIRA 18:8)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.1. Mendeleyeva.

1. 3783-66 EWT(m)/EWP(1)/EWP(t)/EWP(b) JD

ACCESSION: AP5014136

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621.357 669.73

AUTHOR: Fatkh Alla, M. I.; Kudryavtsev, N. T.; Tyutina, K. M.

TITLE: Electrolytic cadmium plating from non-cyanic complex electrolytes

SOURCE: Zashchita metallov, v. 1, no. 3, 1965, 308-313

TOPIC TAGS: cadmium, metal plating, electroplating, electrolyte

ABSTRACT: Thirteen non-cyanic electrolytes for cadmium plating are compared for quality of cathodic deposition, yield with respect to current, cathode polarization and scatterig power. The compositions of these electrolytes and electrolysis conditions are shown in table 1 of the Enclosure. The highest uniformity in deposition thickness was obtained when electrolytes based on a-aminoacetic acid (glycocoli or Trilon "B" are used or when the coating is produced by ammoniate electrolytes. Cathode polarization curves are given for the various electrolytes tested. The curves for electrolytes No. 5, 7 and 12 show more of an inclination toward the x-axis (cathode potential) than do the others. The cathode potentials in electrolytes based on Trilon "B" come close to the cadmium electrodeposition potentials of cyanic electrolytes. Cadmium electrodeposition from electrolyte No. 7 takes place Card 1/3

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ACCESSION NR: AP5014136

at higher positive potentials than in cyanic solutions, but cathode polarization is high, reaching about 180 mv at a current density of 1 a/dm². Cadmium deposition from ammoniate electrolytes takes place at a considerably weaker cathode polarization, about 100 mv at 1 a/dm². If the metal yield with respect to current increases with current density, distribution of the metal on the cathode surface becomes less uniform and vice versa. The yield with respect to current falls sharply as the current density is increased in a Trilon electrolyte, which considerably improves the distribution of metal on the cathode surface at current densities greater than 1 a/dm². Curves for pH as a function of the quantity of acid or alkali added to the solution show that electrolytes No. 5, 7 and 12 have excellent buffer properties. A new electrolyte is developed based on glycocoll (no. 7 in table 1 of the Enclosure). This solution produces fine-grained uniformly thick cadmium coatings. The scattering power of this new electrolyte is considerably better than that of acid solutions, somewhat better than that of ammoniate electrolytes and close to that of cyanic solutions. Orig. art. has: 6 figures, 1 table.

ASSOCIATION: Khimiko-tekhnologicheskiy institut im. D. I. Hendeleyeva (Chemical

Engineering Institute)

SUBMITTED: 03Nov64

NO REF SOV: 008

ENCL! 01 OTHER: 000

1 SUB CODE: MM, GC

1. 3783-66 ACCESSION Components	NR: AP5014136			TABL	<u>E 1</u>			-			CLO			01		(2
conditions trolysis	of elec-	1	2	3	4	5	6	7	8	tro 9	-	11	<u> </u>	13			
	Cdso.*/,II,O Cd(BF4); CdC(s.2'/;II,O) CdO IIBF4 Als(SO4),·18H4O II,BO, (NII4),SO4 NII4F NII4CI Glycocoli Trilon "B" Ethylene diamine (Dasic) Monoethanol amir (75%) ml/1 KOH NAOH NAOH NACL Thiourea Joiner's glue Dextrin pH Current density	04 28 33 33 33 31 0,5	601 1 201 1 1 1 301 - 14-		32 300 		200 200 200 2,5 1 7-8 0,5	1	400	400 	375	112 - 40	280 	48 	a/dm	2	

4: 637/0-65 c..T(m)/ErE(s)/Enk(1)/EnA(d)/Enk(t)/EnF(b) Ju/no
ACCESSION NR: APSO17740 UR/0365/65/001/004/0353/0358
621.357.7

AUTHOR: Kudryavtsev, N. T., Smirnova, T. G.

TITLE: Electrolytic coatings made of Fe-Cr alloy

SOURCE: Zashchita metallov, v. 1, no. 4, 1965, 353-358

TOPIC TAGS: iron containing alloy, chromium containing alloy, electrolytic coating, corrosion resistance, oxidation resistance, galvanic coating, cathode residue, glycine, buffer property, electrolyte solution, complex cation

ABSTRACT: Metallurgically obtained Fe-Cr alloys containing 10 to 30% Cr are known under the name of stainless chrome steels. They are highly resistant to exidation and corrosion and are therefore widely used in industry. Thus, it may be assumed that similar alloys obtained by the galvanic method would also be highly corrosion-resistant and find practical application. Until recently experiments to verify this assumption had been unsuccessful, the cathode residue thus obtained being of poor quality. The impasse was broken, however, by Ya. B. Ishilusski (Dissertation, Mendeleyev Institute of Chemical Technology, Moscow,

Card 1/3

5 63776-65

ACCESSION NR: AP5017740

1961), who had first shown that the addition of aminoacetic acid (glycine) to the solution of chromium salt greatly improves the quality of the deposit by enhancing the buffer properties of the electrolyte and leading to the formation of complex ions of chromium with glycine. In acid solutions chrom: um reacts with glycine to form complex cations of the $[Cr(GIH)_n]^{34}$ type, where n = 3, 4, 5, 6tc., depending on the ratio between components. In this connection, the authors investigated the buffer properties of solutions of the sulfate salts of chromium and iron in the presence of glycine, by the method of potentiometric iteration. The experiments revealed that the following conditions may be recomin a precipitating Fe-Cr alloy. Composition of electrolyte g/liter): $s_{13} + 5H_{2}0 = 160$, FeSO₄ • 7H₂0 = 30-50, MH₂CH₂COOH = 150. Has $s_{24} = 0.5$; Comperature 20°C; cathode current density 7-12 a/decimeter. The amount The the mided corresponds to the formation of the complex to be $(r_i \Im R_{i+1})^{3+} i$. The Acid is added to the electrolyte to prevent the hydrolysis of the trithis it halts of iron that form during the exidation of the divalent Fe irons by mygen of the air. The specified electrolyte yields bright, level, thin and thining coatings of Fe-Cr alloy concaining 27 to 35% Cr. The microhardness this alloy ranges from 550 to 600 kg/mm2. Corrosion tests in the mist of 3% minition of common salt at 30°C showed that Fe-Cr coatings are more corrosion-

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03776-65 ACCESSION NR: AP5017740	•		0	
resistant than pure electroly	tic iron. Orig. art. ha	s: 5 figures.		
ASSOCIATION: Moskovskiy kitim Rendeleyeva (Moscow Institute	lko-tekhnologicheskiy in	stitut im.). I.		
SUBMITTED: 11Feb65	ENCL: 00	SUB CODE:	MM,GC	
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ACCUDSION NR: AP5010989

UR/0153/65/003/001/0099/0103

AUTHOR: Fatkh Alla, M. I.; Tyutina, K. M.; Kudryavtsev, N. T.

TITLE: Effect of pH on the cathode process during cadmium plating from sulfato

SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 8, no. 1, 1965, 99-103

TOPIC TAGS: complex salt, sulfatoammoniate electrolyte, cathode process, cathode polarization, plating

ABSTRACT: Water soluble complex salts of amminecadmium (II) sulfate $[Cd(NH_3)_2SO_4]$ and amminecadmium (II) fluoride $[Cd(NH_3)_2F_2]$ were used in a study on the effect of pF in mality of cathode cadmium plating, cathode polarization, and scattering those. The amminecadmium (II) sulfate complex was prepared by dissolving CdO in an access solution of $(NH_4)SO_4$. It was found potentiomatrically that the amminecadmium (II) sulfate complex is stable in the pH range from 7 to 8 and it decomposes at the less than 6. It was found that the electrolytes contained cathons of $(Cd(NH_4))^{2/4}$; where n=1 to 6. At pH less than 6 the obtained cadmium platings are

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ACCESSION NR: AP5010989			
To the pH range from 7 to the pH range dadmium plat ness. Orig. art. has: 7		ubstantially high ned, and uniform	er and in thick-
ASSOCIATION: Moskovskiy (Moscow Institute of Chem	Khimiko-Tekhnologicheskiy Instit ical Technology)	ut im, c. i. rend	ereera;
SUBHITTED: 05Jun64	ENCL: CO	SUB CODE:	HM, GC
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Card 2/2			

BEK, R.Yu.; NECHAYRV, Ye.A.; KUDRYAVTSEV, N.T.

Cathodic electrodeposition of silver. Zhur. fiz. khim. 39 no.3:628-630 (MIRA 18:7)

1. Khimiko-tekhnologicheskiy institut imeni Mendeleyeva, Moskva.

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220003-7

EWP(z)/EWT(m)/EWG(m)/EWP(b)/EWP(t)/T Pad RAH/JD/HW IJP(c) 1 49:3-6: UR/0076/65/039/004/08"0/0876 ACCESSION NR: AP5011466 AUTHOR > Kudryavtsev, N.T.; Golovchanskaya, R.G.; Baraboshkina, N.K.; Kosmodamiauskaya, L.V. TITLE: Electrodeposition of titanium-iron and titanium-nickel alloys from aqueous ablutions SOURCE: Zhurnal fizicheskov khimii, v. 39, no. 4, 1965, 870-876 TOPIC TAGS: electroplating, alloy deposition, titanium alloy, iron alloy, nickel alloy, current efficiency, metatitanate electrolyte ABSTRACT: Ti-Fe alloys of varying composition were deposited from alkaline solutions of sodium and iron metatitanate. The cathodes used were made of platinum, copper, brass, nickel, or steel. Armco plates served as the cathodes, and the alloy was brass, higher at 1-45 A/dm² at 20, 50, and 75C. The nickel-titanium alloys were deposited hydroffuoric acid and fluoboric acid solutions; the latter were found to be preferable. To study the relative discharge rates of the ions, the cathodic potentials were measured in the course of separate and joint deposition of the metals. The naturence of concentration of the salts in the electrolyte, current density, stirring, and other factors on the composition and quality of the deposits, current efficiency, and Card 1/2

:. 48983-65

ACCESSION NR: AP5011466

cathodic polarization was studied. In the case of Ti-Fe alloys, coatings containing up to 97% Ti were obtained. The current efficiency of the metals depends substantially on the proportion of Ti in the a love the higher the Ti, the lower the current efficiency. Deposits containing 20-40% Ti deposit with current efficiencies of 20 to 30%. In the case of Ni-Ti alloys, coatings containing up to 6% Ti were obtained. The current efficiency remains practically unchanged and amounts to 36-46%. An explanation is offered for the mnibition of the discharge of Fe and Ni ions during the codeposition of each with titanium. "The x-ray structural analyses were carried out in the Laboratoriya stroyeniya poverkhnostnykh sloyev Instituta fizicneskov khimii AN SSSR (Laboratory for the Structure of Surface Layers, Institute of Physical Chemistry, AN SSSR) under the guidance of Yu. M. Polukarov and V.P. Moiseyev." Orig. art. has: 5 figures and 3 tables.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva (Moscow Chemical Engineering Institute)

SUBMITTED: 03Aug63

ENCL: 00

. SUB CODE: MM

NO REF SOV: 304

OTHER: 000

Card 2/2/18

ACC NRI AP7002146

W)

SOURCE CODE: UR/0153/66/009/0 5/0791/0793

AUTHOR: Kudryavtsev, N. T.; Golovchanskaya, R. G.; Savost'yanova, V. M.

ORG: Moscow Chemico-technological Institute im. D. I. Mendeleyev (Moskovskiy khimiko-tekhnologicheskiy institut)

TITLE: Cathodic process in electrodeposition of cobalt-titanium alloys in hydrofluoboric electrolytes

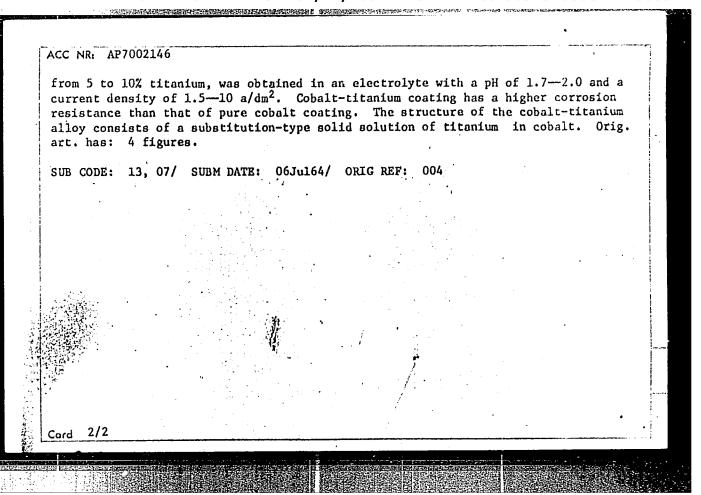
SOURCE: IVUZ. Khimiya i khimicheskaya takhnologiya, v. 9, no. 5, 1966, 791-793

TOPIC TAGS: metal electrodeposition, cobalt titanium alloy, electrodeposition, cobalt titanium alloy, electrolyte, cathode, corrosion resistance, metal conting

ABSTRACT: The effect of pH, temperature, and current density on the composition and quality of deposites and the yield of cobalt-titanium alloy obtained by electrolysis in a hydrofluoboric electrolyte has been investigated. It was found that at an electrolyte temperature of about 20C and a pH of 1.7, a current density increase from 1.5 to 20 a/dm² resulted in the increase of titanium content in the alloy from 4 to 10%. However, the quality of deposites was poorer and the yield of alloy dropped. Temperature increase to 50C resulted in a decrease of titanium content to 2% and poorer deposite quality. An increase in pH from 1.7 to 3.1 brought about an increase of titanium content and yield of alloy but the deposites were spongy and contained titanium hydroxide. The best quality of deposites, containing

Card 1/2

UDC: 66.062.662:542.97



APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220003-7"

INVENTOR: Kudryavtsev, N. T.; Tyutina, K. M.; Fatkh, A. M. I. ORG: none TITLE: Method of electrolytic deposition of tin-cadmium alloy. Class 48, No. 185173 announced by Moscow Chemical Technological Institute im. D. I. Mendelyev (Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendelyeva)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 127-128 TOPIC TAGS: electrolytic deposition, fin alloy, cadmium alloy ABSTRACT: An Author Certificate has been issued for a method of electrolytic deposition of tin-cadmium alloy at room temperature. To increase the dispersive power of the electrolyte and to obtain dense depositions of fine-crystalline structure, the process is carried out in a solution containing: 0.3-0.4 H tin chloride, 0.5 H cadmium chloride, 1.2 H amonium fluoride, 1 g/l carpenter's glue, and 10 g/l phenol at pH 2.54, 0 and a 1.02.0 amp/dm² current density. [Translation] [NT] SUB CODE: 11/ SUBM DATE: 05May64/ Cord 1/1 UDC: 621.357.7:669.6'73			
TITLE: Method of electrolytic deposition of tin-cadmium alloy. Class 48, No. 185173 [announced by Moscow Chemical Technological Institute im. D. I. Mendelyev (Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 127-128 TOPIC TAGS: electrolytic deposition, fin alloy, cadmium alloy ABSTRACT: An Author Certificate has been issued for a method of electrolytic deposition of tin-cadmium alloy at room temperature. To increase the dispersive power of the electrolyte and to obtain dense depositions of fine-crystalline structure, the process is carried out in a solution containing: 0.30.4 H tin chloride, 0.5 H cadmium chloride, 1.2 H amonium fluoride, 1 g/l carpenter's glue, and 10 g/l phenol at pH 2.54.0 and a 1.02.0 amp/dm² current density. [Translation] [NT] SUB CODE: 11/ SUBM DATE: 65May64/ Cord 1/1 UDC: 621.357.7:669.6'73		ACC NR: AP6030631 SOURCE CODE: UR/0413/66/000/016/0127/0128	
TITLE: Method of electrolytic deposition of tin-cadmium alloy. Class 48, No. 185173 [announced by Moscow Chemical Technological Institute im. D. I. Mendelyev (Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 127-128 TOPIC TAGS: electrolytic deposition, fin alloy, cadmium alloy ABSTRACT: An Author Certificate has been issued for a method of electrolytic deposition of tin-cadmium alloy at room temperature. To increase the dispersive power of the electrolyte and to obtain dense depositions of fine-crystalline structure, the process is carried out in a solution containing: 0.30.4 H tin chloride, 0.5 H cadmium chloride, 1.2 H amonium fluoride, 1 g/l carpenter's glue, and 10 g/l phenol at pH 2.54.0 and a 1.02.0 amp/dm² current density. [Translation] [NT] SUB CODE: 11/ SUBM DATE: 65May64/ Cord 1/1 UDC: 621.357.7:669.6'73		INVENTOR: Kudryavtsev, N. T.; Tyutina, K. M.; Fatkh, A. M. I.	
No. 185173 [announced by Moscow Chemical Technological Institute im. D. I. Mendelyev (Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 127-128 TOPIC TAGS: electrolytic deposition, fin alloy, cadmium alloy ABSTRACT: An Author Certificate has been issued for a method of electrolytic deposition of tin-cadmium alloy at room temperature. To increase the dispersive power of the electrolyte and to obtain dense depositions of fine-crystalline structure, the process is carried out in a solution containing: 0.30.4 H tin chloride, 0.5 H cadmium chloride, 1.2 H amonium fluoride, 1 g/l carpenter's glue, and 10 g/l phenol at pH 2.54.0 and a 1.02.0 amp/dm² current density. [Translation] [NT] SUB CODE: 11/SUBM DATE: (5May64/ Cord 1/1 UDC: 621.357.7:669.6'73			
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Mendelyev (Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleyeva)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 127-128 TOPIC TAGS: electrolytic deposition, tin alloy, cadmium alloy ABSTRACT: An Author Certificate has been issued for a method of electrolytic deposition of tin-cadmium alloy at room temperature. To increase the dispersive power of the electrolyte and to obtain dense depositions of fine-crystalline structure, the process is carried out in a solution containing: 0.30.4H tin chloride, 0.5H cadmium chloride, 1.2H amonium fluoride, 1 g/l carpenter's glue, and 10 g/l phenol at pH 2.54.0 and a 1.02.0 amp/dm² current density. [Translation] [NT] SUB CODE: 11/ SUBM DATE: 05May64/ Cord 1/1 UDC: 621.357.7:669.6'73		No. 185173 January of the Magnetic Reposition of tin-cadmium alloy. Class 48.	
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 127-128 TOPIC TAGS: electrolytic deposition, fin alloy, cadmium alloy ABSTRACT: An Author Certificate has been issued for a method of electrolytic deposition of fin-cadmium alloy at room temperature. To increase the dispersive power of the electrolyte and to obtain dense depositions of fine-crystalline structure, the process is carried out in a solution containing: 0.30.4H tin chloride, 0.5H cadmium chloride, 1.2H amonium fluoride, 1 g/l carpenter's glue, and 10 g/l phenol at pH 2.54.0 and a 1.02.0 amp/dm² current density. [Translation] [NT] SUB CODE: 11/SUBM DATE: 05May64/ Cord 1/1 UDC: 621.357.7:669.6'73		Mendelyev (Moskovskiy khimiko-tekhnologicheskiy institut im. D. I. Mendeleveva)]	:
TOPIC TAGS: electrolytic deposition, tin alloy, cadmium alloy ABSTRACT: An Author Certificate has been issued for a method of electrolytic deposition of tin-cadmium alloy at room temperature. To increase the dispersive power of the electrolyte and to obtain dense depositions of fine-crystalline structure, the process is carried out in a solution containing: 0.30.4 H tin chloride, 0.5 H cadmium chloride, 1.2 H amonium fluoride, 1 g/l carpenter's glue, and 10 g/l phenol at pH 2.54.0 and a 1.02.0 amp/dm ² current density. [Translation] [NT] SUB CODE: 11/ SUBM DATE: 05May64/ Cord 1/1 UDC: 621.357.7:669.6'73			
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ABSTRACT: An Author Certificate has been issued for a method of electrolytic deposition of tin-cadmium alloy at room temperature. To increase the dispersive power of the electrolyte and to obtain dense depositions of fine-crystalline structure, the process is carried out in a solution containing: 0.30.4H tin chloride, 0.5H cadmium chloride, 1.2H amonium fluoride, 1g/l carpenter's glue, and 10g/l phenol at pH 2.54.0 and a 1.02.0 amp/dm ² current density. [Translation] [NT] SUB CODE: 11/SUBM DATE: 05May64/ Cord 1/1 UDC: 621.357.7:669.6'73			
deposition of tin-cadmium alloy at room temperature. To increase the dispersive power of the electrolyte and to obtain dense depositions of fine-crystalline structure, the process is carried out in a solution containing: 0.30.4H tin chloride, 0.5H cadmium chloride, 1.2H amonium fluoride, 1 g/l carpenter's glue, and 10 g/l phenol at pH 2.54.0 and a 1.02.0 amp/dm ² current density. [Translation] [NT] SUB CODE: 11/SUBM DATE: 05May64/ Card 1/1 UDC: 621, 357, 7:669, 6'73		TOPIC TAGS: electrolytic deposition, fin alloy, cadmium alloy	
deposition of tin-cadmium alloy at room temperature. To increase the dispersive power of the electrolyte and to obtain dense depositions of fine-crystalline structure, the process is carried out in a solution containing: 0.30.4H tin chloride, 0.5H cadmium chloride, 1.2H amonium fluoride, 1 g/l carpenter's glue, and 10 g/l phenol at pH 2.54.0 and a 1.02.0 amp/dm ² current density. [Translation] [NT] SUB CODE: 11/SUBM DATE: 05May64/ Card 1/1 UDC: 621, 357, 7:669, 6'73		ABSTRACT: An Author Certificate has been issued for a method of electrolytic	
power of the electrolyte and to obtain dense depositions of fine-crystalline structure, the process is carried out in a solution containing: 0.30.4H tin chloride, 0.5 H cadmium chloride, 1.2H amonium fluoride, 1 g/l carpenter's glue, and 10 g/l phenol at pH 2.54.0 and a 1.02.0 amp/dm ² current density. [Translation] [NT] SUB CODE: 11/ SUBM DATE: 05May64/ Cord 1/1 UDC: 621, 357.7:669, 6'73		deposition of tin-cadmium alloy at room temperature. To increase the dispersive	
cadmium chloride, 1.2 H amonium fluoride, 1 g/l carpenter's glue, and 10 g/l phenol at pH 2.54.0 and a 1.02.0 amp/dm ² current density. [Translation] [NT] SUB CODE: 11/ SUBM DATE: 05May64/ Cord 1/1 UDC: 621, 357.7:669, 6'73		power of the electrolyte and to obtain dense depositions of fine-crystalline structure,	
phenol at pH 2.54.0 and a 1.02.0 amp/dm ² current density. [Translation] [NT] SUB CODE: 11/ SUBM DATE: 05May64/ Cord 1/1		the process is carried out in a solution containing: 0.3 0.4 H tin chloride, 0.5 H	
SUB CODE: 11/ SUBM DATE: 05May64/ Cord 1/1 UDC: 621, 357, 7:669, 6'73		cadmium chloride, 1.2 H amonium fluoride, 1 g/l carpenter's glue, and 10 g/l	
Cord 1/1 UDC: 621, 357, 7:669, 6'73		SUB CODE: 11/ SUBM DATE: 05 May 64/	
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ACC NR: AT6024965 (N) SOURCE CODE: UR/0000/65/000/000/000/
AUTHOR: Kudryavtsev, N. T.; Plaskeyev, Ye. V.; Ryazanova, L. M.
\mathcal{A}_{+}
TITIE: Electrolytic preparation of finely divided lead and zinc powders
SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Zashchitnyye metalli- cheskiye i oksidnyye pokrytiya, korroziya metallov i issledovaniya v oblasti elektro- khimii (Protective metallic and oxide coatings, corrosion of metals, and studies in electrochemistry). Moscow, Nauka, 1965, 8-17
TOPIC TAGS: electrodeposition, zinc, lead, metal powder
ABSTRACT: Finely divided lead and zinc powders were prepared electrolytically from alkaline electrolytes. The effect of motal concentration in the electrolyte, cathodic current density, cathodo material, and organic admixtures on the current efficiency of the metal and the dispersity of the cathodic deposits was studied. The effect of various inhibitors on the degree of oxidation of the finished products was determined. The experiments showed that as the zinc concentration increases from 0.1 to 0.3 N, the current densities being the same, the current efficiency of the powder rises, but the inhomogeneity in the size distribution of the powder particles increases. The zinc powder was found to be less homogeneous than the lead powder in particle size; its particles were coarser and had a branched dendritic shape. A certain increase in the
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	and homogeneity mixture of the preparing lead						
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JD/HW/GD EWT(m)/EWP(t)/ETI IJP(c) L 46843-66 UR/00C0/65/000/000/0144/0148 SOURCE CODE: AT6024971 ACC NR 40 Kudryavtsev, N. T.; Golovchanskaya, R. G.; Baraboshkina, N. K. B+1 ORG: none Electrodenosition of a nickel-titanium alloy from hydrofluoboric acid electrolytes SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Zashchitnyye metallicheskiye i oksićnyye pokrytiya, korroziya metallov i issledovaniya v oblasti elektrokhimii (Protective metallic and oxide coatings, corrosion of metals, and studies in electrochemistry). Moscow, Nauka, 1965, 144-148 TOPIC TAGS: electrodeposition, nickel alloy, titanium alloy, metal coating, proketin corting, como air resistance
ABSTRACT: hydrofluoric and hydrofluohoric acid solutions of nickel and titanium salts were used for the codeposition of a nickel-titanium alloy. The alloys deposited from hydrofluoboric acid electrolytes contained about 6% Ti, and those from hydrofluoric acid electrolytes, 2-4% Ti. The quality of the deposits obtained from hydrofluoboric acid electrolytes was better. When the current density is increased, and also whon the cathode and anode compartments are separated by a diaphragm in the hydrofluoboric acid electrolyte, the Ti content of the alloy increases to 10-15%, but the current efficiency decreases. As the electrolyte temperature rises, the Ti content of the alloy drops somewhat, apparently because of the corresponding change in the rate of discharge of nickel and titanium ions. The current efficiency decreases with ris-

+6843-66 C NR: AT6024971 g current density and increases with rising temperature, owing to a	change in the
g current density and increases with rising temperature, owing to do low composition. On the average, the current efficiency of the all ating of Ni-Ti alloy was found to be more corrosion-resistant than re nickel. Orig. art. has: 3 figures and 3 tables.	a coating of
B CODE: 11,13/ SUBM DATE: 07Jul64/ ORIG REF: 002	
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L 38173-66 EWT(m)/EWP(t)/ETI IJP(c) JD/HW/JG

ACC NR: AP6021079 (A) SOURCE CODE: UR/0365/66/002/002/0216/0220

AUTHOR: Kudryavtsev, N. T.; Potapov, I. I.; Mel'nikova, M. M.

14 B

ORG: Moscow Chemico-Technological Institute im. D. I. Mendeleyev (Moskovskiy khimiko-tekhnologicheskiy institut)

TITLE: Analysis of the electrolytic deposition of a Co-Cr alloy

SOURCE: Zashchita metallov, v. 2, no. 2, 1966, 216-220

TOPIC TAGS: electroplating, cobalt, chromium, optimum process, magnetic property, temperature dependence, current density, alloying metal coating, ELECTROLYTIC DEPOSITION NO.

ABSTRACT: The Cr content of <u>Co-Cr</u> alloy <u>coatings</u>, % electric current yield, coercive force, inductive saturation, residual inductance and coefficient of orthogonality were measured as functions of electrolyte composition, pH, temperature and current density in solutions of Cr- and Co sulfates + amino acetic acid. The conditions for obtaining good coatings of Co-Cr alloys (5-15% Cr) are given. It was established that some of the factors contributing to changes in the composition of the alloy also affect the magnetic properties. Additions of cobalt sulfate ranging from 0.25 to 1.0 g-equiv/l lowered the Cr and increased the Co content of the coatings. The electric current yield increased from 10 to 33% at 6 a/dm² and from 18 to 41% at 10 a/dm² for the same cobalt sulfate changes. Above 10 a/dm² the quality of the coatings was poor.

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ACC NR: AP6021079

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By increasing the temperature from 20 to 50°C, the % yield rose and the quality of the coatings improved, although the Cr content decreased from 10 to 3%. The lowering of pH from 2.5 to 1.5 dropped both the % yield and the Cr content. Alloy coatings, obtained under optimum electrolyzing conditions, had a low coercive force (20-50 oe) and a residual inductance of 5000-6000 gs. With increases in current density from 2 to 10 a/dm² and pH from 1.5 to 2.5 the coercive force dropped as a result of the increase in Cr content. At pH=2 the coefficient of orthogonality went through a maximum but increased with current density. The orthogonality of the hysteresis loop improved with increase in temperature from 20 to 50°C, while the coercive force went through a maximum at 40°C, probably due to a phase transformation in the coating. Orig. art. has: 7 figures.

SUB CODE: 11,14/

SUBM DATE: 22Jul65/

ORIG REF: 011/

OTH REF: 001

Card 2/2

web

1. 21592-66 EWT(m)/EWP(t) ACC NR AP6012437 (N) SOURCE CODE: UR/0364/65/001/012/1458/1461 AUTHOR: Nechayev, Ye. A.; Bek, R. Yu.; Kudryavtsev, N. T. ORG: Moscow Chemical Engineering Institute imeni D. I. Hendelevev (Moskovskiy khimiko-tekhnologicheskiy institut) TITLE: Some characteristics of the process of electroplating silver on platinum SOURCE: Elektrokhimiya, v. 1, no. 12, 1965, 1458-1461 TOPIC TAGS: silver, platinum, metal plating, electrolysis ABSTRACT: The authors study the process of silverplating platinum to determine the cause for unsatisfactory quality in silver coatings on this metal and to find conditions for producing dense silver films at high current densities. The experiments were done in electrolytes with the following composition: Ag--0.25 N, NaCN--0.25-1.0 N, Na CO --0.5 N at $t=25-30^{\circ}$ C and i=0.1-0.5 a/dm² without the application of alternating current, and i = 0.1-1.5 a/dm² with the application of alternating current with a frequency of 50 cps and i_{ac}/i_{dc} = 2.5. Plating quality was studied under a microscope. On the basis of the experimental data, the following plating conditions are recommended for producing high quality silver coating on platium: electrolyte composition: Ag--0.25 N, NaCN--0.5 N, Na₂CO₃--0.5 N, i < 1.5 a/dm² t = 20-25°; con-Z UDC: 621.357.7 Cord 1/2

seconds	of elect	lication o crolysis a	nd i	= i _{do} =	2.0-2.5	through	ic i the res	t of th	e platin	ng pro-
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NECHAYEV, Ye.A.; BEK, R.Yu., KUDRYAVTSEV, N.T.

Electrodeposition of silver from complex electrolytes. Part 1:
Method of studying the kinetic parameters and capacity of the
double electrical layer in the process of silver electrodeposition.
Elektrokhimiia 1 no.ll:1325-1331 N '65. (MIRA 18:11)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva i Institut fiziko-khimicheskikh osnov pererabotki mineral'nogo syr'ya Sibirskogo otdeleniya AN SSSR.

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NECHAYEV, Ye.A.; BEK, R.Yu.; KUDRYAVTSEV, N.T.

Process of silver electrodeposition from complex electrolytes.

Part 2: Relation between the structure of the deposit and
the capacity of the electric double layer in the electrolytic
silver plating from cyanide electrolytes. Elektrokhimiia 1
no.12:1443-1448 D *65. (MIRA 19:1)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva i Institut fiziko-khimicheskikh osnov pererabotki mineral'nogo syr'ya Sibirskogo otdeleniya AN SSSR. Submitted January 25, 1965.

KRUGLIKOV, S.S.; SINYAKOV, Yu.I.; KUDRYAVTSEV, N.T. Diffusion control of thiourea consumption in a sulfate electrolyte for copper plating. Elektrokhimiia 2 no.1:100-103 Ja '66.

(MIRA 19:1)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva. Submitted March 30, 1965.

CIA-RDP86-00513R000827220003-7 "APPROVED FOR RELEASE: 07/12/2001

KUDRYAVTSEY, N.T.; GOLOVCHANSKAYA, R.G.; BARABOSHKINA, N.K.; KOSMODAMIANSKAYA, L.V.

Electrodeposition of titanium-iron and titanium-nickel alloys from aqueous solutions. Zhur. fiz. khim. 39 no.4:870-876 Ap 165.

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva. Submitted Aug. 3, 1963.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000827220003-7"

KUDRYAVTSEV, N.T.; YARLYKOV, M.M.; MEL'NIKOVA, M.M.

Value of the PH cathode in the layer in electrolytes during electrodeposition of nickel and iron. Zhur. prikl. khim. 38 no.3:545-555 Mr *65. (MIRA 18:11)

1. Submitted March 9, 1963.

	L 42795-66 EWT(m)/EWP(t)/ETI IJP(c) JD/HW ACC NR: AP6029074 SOURCE CODE: UR/0413/66/000/014/0131/0131	-
	INVENTOR: Kudryavtsev, N. T.; Golovchanskaya, R. G.; Baraboshkina, N. K.	
	ORG: none TITLE: Electrochemical deposition of nickel-titanium alloy. Class 48, No. 184092	
	SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 131	
	TOPIC TAGS: TITLE titanium alloy, electrolytic deposition, dense crating, NICKEL ALLOY, METAL CONTING ABSTRACT: This Author Certificate introduces a method of deposition of nickel- titanium alloy at temperatures of 18—25C. In order to obtain a dense uniform coating titanium alloy at temperatures of 18—25C. In order to obtain a dense uniform coating tightly adhering to the metal base, the process is conducted at a current density tightly adhering to the metal base, the process is conducted at a current density of 5—10 a/dm ² and a pH of 0.3—1.8 in an electrolyte containing 500 mg/l hydro- fluoric acid, 0.4 mol/l nickel chloride, 0.8 mol/l metallic titanium, 0.50 mg/l lauryl sulfate, and 50 mg/l ethyl alcohol.	
	SUB CODE: 11/ SUBM DATE: 12Ju163/ATD PRESS:5066	_
: !	Cgrd 1/1 LC UDC: 621.357.7:669.248'295	

KARETNIKOV, C.S.; KUDRYAYTSEV, N.T.; GOLOVCHANSKAYA, R.G.; Prinimala uohastiye HASSUDOVA, N.S., dotsent

Study of alkaline solutions of sodium metatitanate in the presence of glycerol. Zhur. fiz. khim. 39 no.9:2298-2300 (MIRA 18:10) S. 165.

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

Mathod of determining the concentration of leveling additives in solutions for the electrolytic application of matallic coatings.

Zashch.met. 1 nc.42439-441 J1-Ag 165. (MIRA 18:8)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeri U.I.

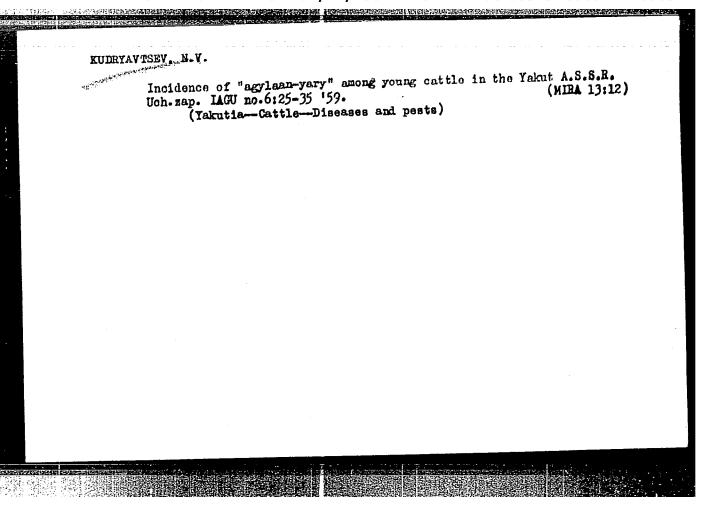
Mendeleyeva.

KUDRYAVTSZV, F. V.

Kudryavtsev, N.V.

"A Pathomorphological Study of the Effectivenss of Hyperimmune Sera in Experimental Brucellosis of Taboratory Animals." All-Union Inst of Experimental Veterinary Medicine, Min Agriculture USSR. Moscow, Of Experimental Veterinary Medicine of Cardidate in Veterinary Science)

SO: Knizhnaya letopis' No. 27, 2 July 1955



**KUDRYAVTSEV, N. V.

**Flexure of a Round Plate with an Eccentric Hole by a Concentrated Load, Dokl.

AN SSSR, 53, No.2, 1946

YUZEFOV, V.I.; KUDRYAVTSEV, N.V.

New method for applying insulation to wire of rectangular cross section. Suggestion by V.I. IUzefov and N.V. Kudriavtsev. (MLRA 9:10)

Prom.energ. 11 no.7:18 J1 '56. (MLRA 9:10)

(Electric insulators and insulation)

(Electric wire, Insulated)

KUDRYAVTSEV, Nikolay Vladimirovich; NEDYAKIN, Aleksey Ivanovich; PANKOV, Yevgeniy Am sollyevich; YEFREMOV, G.V., red.; SHLEPNIKOVA, Z.V., red.

[Operation and repair of ships on underwater wings] Ekspluatatsiia i remont sudov na podvodnykh kryliakh. Moskva, Transport, 1964. 108 p. (Mills 17:6)

	(d //EMT(m)/FA/EWA(d)/T-2/EWP(h) BOOK EXPLOITAGION	0/
•		S/ 34
Maintenance and kryllyakh) Mo	repair of hydrofoil boats (Ekspluatatsiyai escow, Izd-vo"Transport", 1964. 0100 p. illus O copies printed.	rement success oodvodnykh
TOPIC TAGS: hyd	irofoil, Raketa, Meteor, Sputnik, water	r transportation, mainte-
nance, framin shafting, ali	ug, propeller, rudder diesel engine 14-50, s	teering gear, propeller
nance, framin shafting, ali PURIOGE AND COVE crew members, cational mate The book deal equipment on driving and serven in this	ug, propeller, rudder diesel engine 14-50, s	snics, ship's masters and ay also be useful as edu- r educational institutions. mechanical and electrical k on the bull and the ion. The recommendations the "Raketa" and "Meteor"
nance, framin shafting, ali PURIOGE AND COVE crew members, cational mate The book deal equipment on driving and serven in this	g, propeller, rudder diesel engine M-50, signment, RAGE: The book is intended for use by mecha and at repair and maintenance bases. It may be rial for students in intermediate and higher as with the care, maintenance, and repair of hydrofoil craft. It also covers repair work teering gear and on the hydrofoil installating book are based on experiences gained with fit, as well as the maintenance and repair of	snics, ship's masters and ay also be useful as edu- r educational institutions. mechanical and electrical k on the bull and the ion. The recommendations the "Raketa" and "Meteor"

L 318**19-**65 **AM5006600**

- I. Characteristics of hydrofoils -- 3
- 11 II. Aspects of the hydrofoil's further introduction into water transport -- 14
 - III. Construction and maintenance of hydrofoil hulls -- 20

Material -- 20

System of framing and joints -- 21

Care and maintenance technology -- 24

IV. Mechanical installations of hydrofoils -- 45

Main engines -- 45

Technical operation of the hydrofoil's main M-50 diesel-engine -- 49

Disassembling and assembling of M-50 diesel-engine aboard ship -- 66

The hydraulic steering gear on a "Meteor"-type motor ship (built in 1962) -- 86 Cord 2/3

5、同門身場[AM5006600 Technical conditions of propeller shafting and main engine installations on the "Sputnik" motor ship -- 88 Propeller shafting and main engine alignment on the "Raketa" motor ship == 90 Methods of correcting bent shafts -- 93 V. Electrical equipment -- 96 VI. Arrangement of hydrofoils -- 100 VII. Propellers and rudders -- 105 References -- 109 C. SUE CODE: MS SUBMITTED: 06Apr64 NO REF SOV: 008 OTHER: OCO Card 3/3

KUDRYAVTSEV, N. YE.

The Committee on Stalin Frizes (of the Council of Ministers 1888, in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Frizes for the years 1998 and 1953. (Sovetskaya Kultura, Moncow, No. 22-40, 20 Feb - 3 Apr. 1954)

Same

Sokolov, N. S. Yarkov, S. P. Chizhevskiy, M. G. Cherkasov, A. A. Shestakov, A. G. Gulyakin, I. V. Peterburgskiy, A. V. Troitskiy, A. N. Luk'yanyuk, V. I. Savzdarg, E. E. Trofimovich, A. Ya. Kuznetsov, V. S. Kulryavtsev, N. Ye. Pronin, A. F. Alekhin, N. V. Sachli, S. N.

Title of Work

"Elements in Farming" (textbook)

Reginated by

Moscow Agricultural Academy imeni K. A. Timiryazev

50: W-306x4, 7 July 1954

ALEKHIN, N.V., dots., kand. sel'khoz. nauk; GEORGIYEVSKIY, I.S., dots., kand. tekhn. nauk; KUDRYAVTSEV, N.Ye., dots., kand. sel'khoz. nauk; OS'KIN, A.I., dots., kand. sel'khoz. nauk; PRONIN, A.F., dots., kand. sel'khoz. nauk; SACHLI, S.N., dots., kand. sel'khoz. nauk; DMITRIYEV, I.I., red.; TRUKHINA, O.N., tekhn. red.

[Manual on the adjustment of agricultural machines]
Spravochnik po regulirovkam sel'skokhoziaistvennykh mashin. [By] N.V.Alekhin i dr. Izd.2., perer. i dop. Moskva, Sel'khozizdat, 1963. 686 p. (MIRA 17:1)

GITALOV, Aleksandr Vasil'yevici, Geroy Sotsialisticheskogo Truda; VESNA, Nikolay Mitrofanovich; GUEKO, Vasiliy Romanovich; PASHEDKO, L.T., nauchnyy red.; KUDRYAVTSEY, N.Ye., nauchnyy red; SHALYT, N.A., red.; PERSON, M.N., tekhn. red.; TOKER, A.M., tekhn. red.

[Over-all mechanization of growing and harvesting farm crops]
Kompleksnaia mekhanizatsiia vozdelyvaniia i uborki sel'skokhoziaistvennykh kul'tur. Moskva, Proftekhizdat, 1962. 271 p.

(MIRA 16:2)

(Agricultural machinery)

KUDRYAVTSEV, Nikandr Yefimovich; SHALYT, N.A., red.

[Field manual on agricultural machines] Proizvodstvennyi praktikum po sel'skokhoziaistvennym mashinam. Moskva, Vysshaia shkola, 1964. 281 p. (MIRA 17:6)

ROZENEERG, Yu.A.; BAGANOV, V.M.; KULRYAVTSEV, O.A.

Surface smoothness in machining gray iron. Izv.TPI 85:249-259
'57. (MIRA 10:12)

1.Predstavleno prof. doktorom tekhn.nauk A.M. Rozenbergom.
(Metal cutting) (Surfaces (Technology))

KUDRYAVTSEV, O. K.

FLIT, S. M. - st. nauchn. sotr. i POLYAKOV, A. A. - kand. tekhn. nauk i KUDRYAVTSEV, O. K. - o. st. nauchin. sotr. i GUREVICH, L. V. - Kand. tekhn. nauk KHRUNOV, N. P. - Kand. tekhn. nauk

Akademiya kommunal'nogo khozyaystva im. K. D. Pamfilova Osnovnyye Meropriyatiya po Obespechemiyu Bezopasnosti Dvizheniya V Gorodakh Page 79

SO: Collection of Annotations of Scientific Research Work on Construction, completed in 1950.

Moscow, 1951

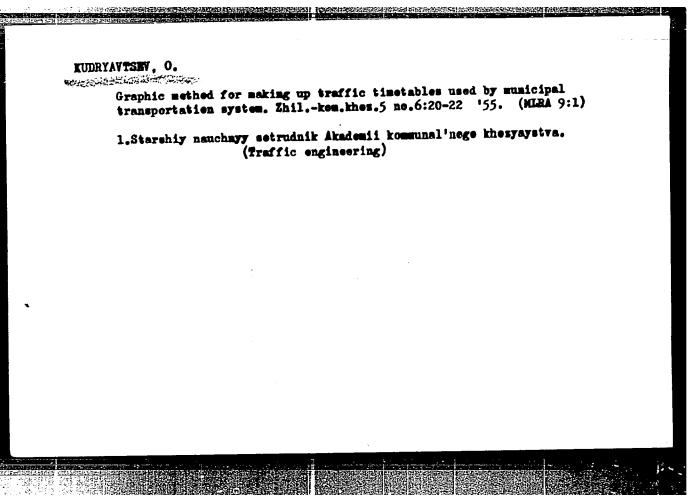
KUDRYAYSET, C.A.

BARKOVA, Ye.A.; KUDRYAVTSEV, O.K.; MARKOVNIKOV, V.L., redaktor; OTSCHEVA,

M.A., redaktor; KONYASHINA; A.D., tekhnicheskiy redaktor

[Calculating the time of runs in city transportation] Raschet vremeni reisa na gorodskom transporte. Moskva, 1zd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1955. 108 p. (MIRA 9:2)

(Traffic surveys)



Kudryavisev, O. K.

KUDRYAVTSEV, O. K. Name:

Dissertation: The link between speed and regularity of movement of urban

transport

Cand Tech Sci

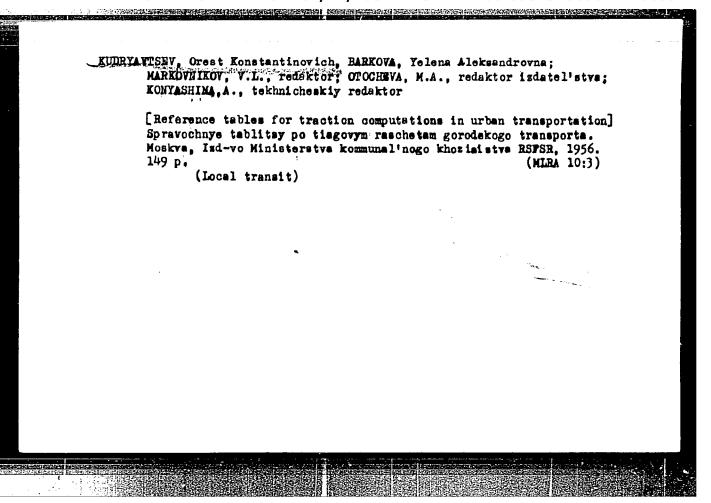
Acad of Municipal Economy imeni K. D. Pamfilov

we Date, Place:

1956, Moscow, Publishing House of Min Municipal Economy RSFSR

Source: Knizhnaya Letopis', No 47, 1956

CIA-RDP86-00513R000827220003-7" **APPROVED FOR RELEASE: 07/12/2001**



BARKOVA, Ye. A.; BLATHOV, M.D.; RUDRYAVTSEV, O.K.; SAMOYLOV, D.S.;
MINASYAM, Ye.A., redaktor; monover, D.M.; definitionskiy redaktor

[Principles of the organization of the movement of city passenger transportation; a practical menual] osnovy organizatail dvirhanila gorodskogo passarhirskogo transporta; metodicheskoe rukovodstvo.

Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1956. 270 p. (NIRA 10:4)

(Local transit)

MUDRYAVTSEV, O., kand.tekhn.nauk.

The cost of passenger transportation and the operating speed of traffic. Zhil.-kom. khos. 7 no.8:19 '57. (MIRA 10:10)

(Street railways--Cost of operation) (Motor bus lines--Cost of operation)

KUDRYAVISKY, O.K., kand. tekhn. nauk.

Planning a new street railway based on the old circumferential railroad line. Gcr. khoz. Mosk. 32 no.4:19-21 Ap 158. (MIRA 11:4)

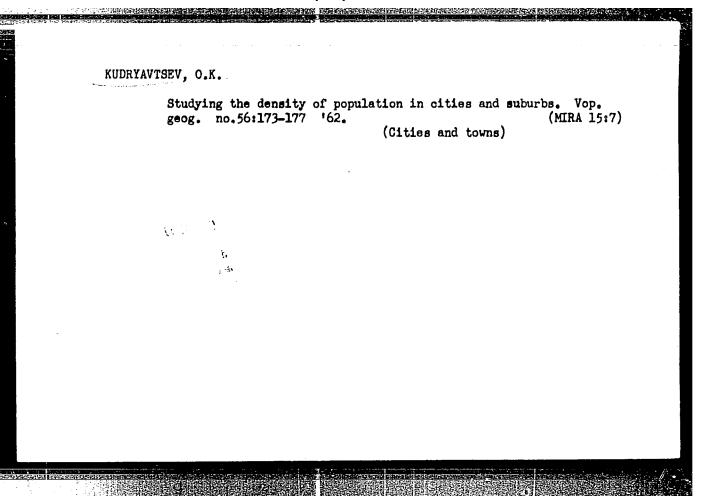
1. Starshiy nauchnyy sotrudnik Akademii kommunal nogo khozyaystva.
(Moscow—Street railways)

MERKULOV, Yefim Afanas yevich; PETROV, Vyacheslav Konstantinovich [deceased]; SOSYANTS, Vasiliy Georgiyevich; YUDIN, Vasiliy Aleksandrovich; Prinimali uchastiye; DUBROVIN, Ye.N.; SLAVUTSKIY, A.K.; BARKOVA, Ye.A.; BLATNOV, M.D.; KUDRYAVTSEV, O.K.; SAMOYLOV, D.S.; FRIDLYAND, A.G., BRONSHTEYN, L.A., red.; RACHEVSKAYA, M.I., red.izd-va; LELYUKHIN, A.A., tekhn.red.

[Urban transportation and street construction] Gorodskoi transport i dorozhno-mostovos khoziaistvo. Moskva, Izd-vo M-va kommun.khoz. RSFSR, 1959. 473 p. (MIRA 12:8)

1. Sotrudniki Akademii kommunal'nogo khozyayatva im. K.D.Pamfilova (for Barkova, Blatnov, Kudryavtsev, Samoylov, Fridlyand).

(Transportation) (Streets)



KUDRYAVTSEV, O.K., kand.tekhn.nauk

The problem of building the Moscow subway system to serve future needs. Gor. khoz. Mosk. 36 no.9:23-24 S 162. (MIRA 15:10) (Moscow-Subways)

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8/109/60/005/06/018/021

E140/E163

Card 1/2

AUTHORS: Kudryavtsev, O.M., and Pruzhinina, V.I.

Controlled Non-Linear Semiconductor Resistances

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol 5, Nr 6, TITLE: pp 1006-1008 (USSR)

ABSTRACT: The principle of controlling the parameters of a nonlinear semiconductor resistance using a transverse

electric field permits the development of a number of function-conversion circuits distinguished by simplicity, reliability and stability as well as by low Such devices may be used for phase discriminators, modulators, voltage stabilisers, corrective networks with

variable parameters, controlled voltage dividers, multiplier and divider circuits, automatic gain controls, oscillator frequency controls, etc. The authors have worked on this subject since 1957. Polycrystalline silicon carbide was used for these experiments. properties are relatively stable in a wide temperature

interval (-60 +50 °C) at frequencies up to 20 kcs. Four-electrode, six-electrode, and other configurations

are described.

CIA-RDP86-00513R000827220003-7" APPROVED FOR RELEASE: 07/12/2001

\$/109/60/005/06/018/021 £1¹+0/£163

Controlled Non-Linear Semiconductor Resistances

There are 5 figures, 1 table and 5 references, of which 4 are Soviet and 1 is Gzech.

Card 2/2

SUBMITTED: December 18, 1959

1

S/105/60/000/009/003/003 B019/B054

9,3270

Kudryavtsev, O. M. (Moscow)

TITLE:

AUTHOR:

A Static Modulator With Controlled Nonlinear Semiconductor

Resistance

PERIODICAL:

Elektrichestvo, 1960, No. 9, pp. 80-82

TEXT: In the present paper, the author investigates a static modulator which is based on the principle of a change in the active resistance of a semiconductor under the action of a periodically changing electric field. By the use of the semiconductor the modulator has a symmetrical volt-ampere characteristic whereby the specific volume conductivity only depends on the electric field intensity. This property is relatively stable in the range of from -60 to +100°C at 20 kc/s. With its high input impedance of 0.8·10° ohms and more, this modulator is suited for the conversion of d.c. signals or slowly changing signals which are supplied by sources of high internal resistance. The scheme of a d.c. modulator is discussed with the aid of Fig.1a. An alternating voltage acts on the electrodes I - I of the

Card 1/3

A Static Modulator With Controlled Nonlinear Semiconductor Resistance

S/105/60/000/009/003/003 B019/B054

semiconductor; this voltage modulates the current flowing over II - II accordingly. Fig. 3 shows the output voltage of the modulator as a function of the input voltage at different loads. Further, the change in temperature of the surrounding medium between 20 and 80°C is taken into account. The coefficient of voltage transmission K_u = U_{out}/U_{in} is practically constant in this temperature range. Further, the author discusses the work of the modulator in the conversion of the input current into voltage. Here, the direct current generates a voltage drop in the semiconductor; Fig. 5 shows the output voltage as a function of the input current. Also here, a practically linear dependence can be established. At low frequencies the capacitance of the semiconductor from 2 to 3 micromicrofarads may be neglected. Thus, the modulator described seems well suitable for the conversion of signals from d.c. sources of high internal resistance. In this case, it has a small zero drift, a high transmission coefficient, and a good frequency characteristic. It can be used for phase discrimina-

tors, voltage stabilizers, automatic amplification regulators, multipliers,

and divider devices. There are 5 figures and 1 Soviet reference.

Card 2/3

A Static Modulator With Controlled Nonlinear Semiconductor Resistance

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S/105/60/000/009/003/003 B019/B054

SUBMITTED:

January 4, 1960

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Card 3/3

s/103/62/023/002/009/015 D230/D301

9.3286 (1147,1159)

Kudryavtsev, O.M., and Lipman, R.A. (Moscow)

Controlled non-linear resistance multiplier AUTHORS:

Avtomatika i telemekhanika, v. 23, no. 2, 1962, 190 -TITLE: PERIODICAL:

TEXT: The multiplier is based on the principle of automatically controlled transfer coefficient. The design of the device employs two quadripoles, whose transfer coefficients can be varied by means cf a controlling voltage. In this case, the functional relation between the transmission coefficient and amplitude of the controlling voltage can be set arbitrarily, but it must remain identical for both quadripoles; the degree with which the last requirement is ful-filled determines finally the working accuracy of the multiplier. For the quadripole having varying transmission coefficients, a controlled non-linear semi-conductor resistance (c.n.s.r.) can be used having two pairs of electrodes placed in two mutually-perpendicular planes. Conduction between any one pair of electrodes varies within planes, depending on the amplitude of the controlling voltage Card 1/2

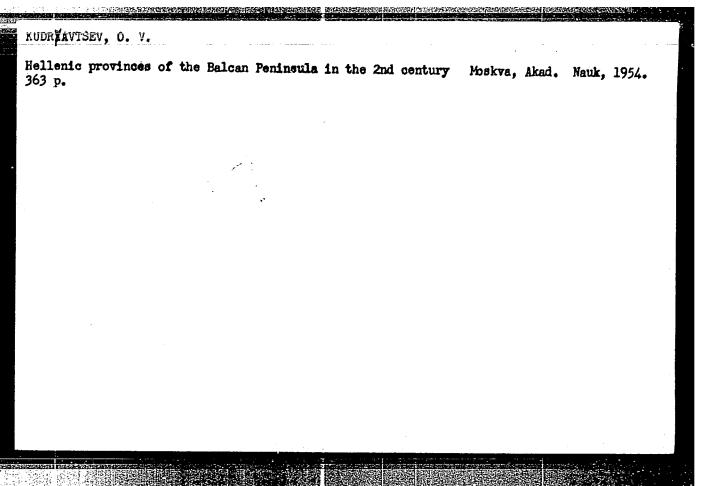
CIA-RDP86-00513R000827220003-7" APPROVED FOR RELEASE: 07/12/2001

Controlled non-linear resistance ...

S/103/62/023/002/009/015 D230/D301

applied to the second pair of electrodes. In order to ensure substantial improvement in the conductance variation of the c.n.s.r., the current density component in the sample determined by the chacasteristics of the controlled circuit should be sufficiently small compared with the current density, determined by the action of the controlling voltage; even a relatively small resistance coupling can cause leakage of noise current in the controlled circuit, the amplitude of this will be comparable to the useful signal. In order V to eliminate this type of interference, alternating voltage for the control is used, its frequency being considerably higher than the highest signal frequency in the controlled circuit, the interference is then filtered out. In designing the multiplier two c.n.s.r.'s can be used with strictly identical control characteristics; this implies selective assembly of samples. Difficulties are experienced when the device is subjected to wide environmental operating conditions, this can be largely obviated by using a single c.n.s.r. having three pairs of electrodes placed in three mutually-perpendicular planes. There are 2 figures and 5 Soviet-bloc references. SUBMITTED: April 10, 1961

Card 2/2



L 20507-66 EVI(d)/EVI(1)/EVI(m)/ENP(h)/I-2 IT ACC NR: AP6003291 SOURCE CODE: UR/0209/66/000/001/0045/0050

AUTHOR: Podol'nyy, V. (Colonel; Meritorious test pilot); Kudry-vtsev, P. (Engineer; Lieutenant colonel); Khatuntsev, I. (Engineer; Lieutenant colone)

ORG: none

TITLE: <u>Unforeseen incidents</u> on a helicopter

SOURCE: Aviatsiya kosmonavtika, no. 1, 1966, 45-50

TOPIC TACS: helicopter, helicopter rotor, flying training

ABSTRACT: The safe flying and landing of the Mi-6 helicopter with one or both engines cut off depends mainly on the flying techniques used. In order to maintain altitude after one engine has been cut off, the pilot must decrease rotor pitch 4—6 degrees in 1.5—2 sec and at the same time increase the power of the remaining engine. Horizontal flight can be maintained at speeds of 130—150 km/hr and at an altitude of approximately 1000 m with the rotor rpm at 80—82 % and only one engine operating. With the abrupt failure of one engine the pilot should use the control handle for both engines to decrease rotor pitch. If the pilot uses the handle for controlling only one engine, and he is not certain which engine malfunctioned, he may turn the wrong handle, thus losing too much time and possibly causing complete loss of control of the helicopter. For training purposes, flight with one engine is recommended at an altitude of 1000—1500 m and at a special 130—150 km/hr. One engine should be cut off

Card 1/2

L 20607-66

ACC NR: AP6003291

by closing a stopcock rather than by decreasing the supply of gas, since this causes vibration in the transmission. Landing on one engine should be at a horizontal flying speed of 130-140 km/hr and at a vertical speed of 2-3 m/sec. At an altitude of 5-6 m the horizontal speed should be decreased to 60-70 km/hr, with the pitch angle set at 8-10 degrees; in this way the helicopter will touch down on its main wheels, and then its nose will drop. The Mi-6 helicopter is equipped with an autorotation system and can make power-off landings. If this is done, the rotor pitch is first decreased to 1 degree at an altitude 1000 m; at an altitude of 2000 m the rotor pitch should be set at 4 degrees, and at an altitude of 3000 m it should be set at 5 degrees At an altitude of 1000 m, with a gliding speed of 140 km/hr, normal take-off load, and 80-82 % rotor rpm (with both engines shut off), speed of descent will be 11 m/sec. With a gliding speed of 120 km/hr (without payload), the loss of altitude will be $10\ \mathrm{m/sec}$; for the same load at a speed of 220 km/hr the loss in altitude is maximum and will be 17-18 m/sec. For a gliding speed of 200 km/hr, and with the rotor set at 15 degrees, the loss in altitude will increase by 2 m/sec. Landing with a gliding speed of 100 km/hr, the angle of descent will sharply decrease (by 26-27 degrees), thus making landing highly complicated. [WH]

SUB CODE: 01/ SUBM DATE: none/ ATD PRESS: 4226

Card 2/2

PODOL'NYY, V., polkovnik, zasluzhennyy letchik-ispytatel' SSSR; KUDRYAVTSEV,
P., inzh.-podpolkovanik; KHATUNTSEV, I., inzh.-podpolkovnik

Piloting a helicopter in special cases. Av. i kosm. no.1:45-50
Ja '66. (MIRA 19:1)

KUDRYAVTSEV, P.

Criticism of bourgeois falsifiers of "the new trend", 1920-1940. Vestis Latv ak no.12:5-14 '60. (EEAI 10:9)

1. Akademiya nauk Latviyskoy SSR, Institut ekonomiki.

(Latvia-History)

VOLODIN, Yevgeniy Ivanovich; SNETKOV, Anatoliy Mikhaylovich; IDZON, Mikhail Fridmanovich; SOLOVEYCHIK, Ya.S., inzh., retsenzent; KUDRYAVTSEV, P.A., inzh., red.; BAZHENOV, D.V., red. izd-va; SOKOLOVA, T.F., tekhn.red.

[Automation and mechanization of control systems in the machinery industry; manual] Avtomatizatsiia i mekhanizatsiia sredstv kontrolia v mashinostroyenii; spravochnoe posobie.

Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1962. 215 p. (MIRA 15:3)

(Machinery industry) (Automatic control.)

KRYSIN, Anatoliy Mikhaylovich; NAUMOV, Ivan Zakharovich;

KUDRYAVTSEV, P.A., nauchn. red.; SAZIKOV, M.I., red.;

TOKER, A.M., tekhn. red.; PERSON, M.N., tekhn. red.

[Assemblyman] Slesar' mekhanosborochrykh rabot. Moskva, Proftekhizdat, 1963. 324 p. (MIRA 16:12) (Machine-shop practice)

SOSEDOV, P.O., direktor sovkhoza; KUDRYAVTSEV, P.F., starshiy veterinarnyy vrach; NOSKOV, A.I., kandidat veterinarnykh nauk.

Use of antibiotics. Veterinariia 33 no.8:78-79 Ag 156. (MIRA 9:9)

1.Sovkhez "Petrovskeye", Ukhtomskogo rayona, Moskovskey oblasti. (Swine-Diseases and pests) (Antibiotics)

KUDRYAVTSEV, P. I., kand. filosofskikh nauk; GLASHKIN, Yu. I., starshiy prepodavatel'

Creative contribution of the 21st Congress of the CPSU to the development of Marxist-Lenin's theory. [Trudy] GIDUV no.23:5-28 '60. (COMMUNISM)

KUDRYAVISEV, P.I., kand.filosof.nauk, red.; TOKAREVICH, K.N., prof., red.; FRIDLYAND, G.I., prof., red.

[The 21st Congress of the Communist Party of the Soviet Union and tasks in the development of Soviet medicine] XXI swezd KPSS i zadachi razvitiia sovetskoi meditainy. Leningrad, 1960. 105 p. (Leningradskii gos.ordena Lenina in-t usovershenstvovaniia vrachei, vyp.23) (MIRA 14:2)

1. Leningrad. Gosudarstvennyy institut usovershenstvovaniya vrachey.

(MEDICINE)

KUBEYAVICEV, F.L.; VIROKULOV, V.A., doktor tekhn. auk, retronzent

[Residual welding stresses and the strength of welded joints] Ostatochnye svarochnye napriazhenija i prochnost' scedinenii. Moskva, Mashinostroenie, 1964. 93 p. (MERA 17:8)

L 32255-65 EWT(m)/EWP(w)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b) <math>MJW/JD/HM

ACCESSION NR: AP4049506

\$/0135/64/000/011/0001/0004

AUTHORS: Kudryavtsev, P.I. (Engineer); Gel'man, A.S. (Doctor of technical sciences)

TITLE: The effect of mechanical inhomogeneity on the <u>fatigue</u> strength of <u>weld joints</u>

SOURCE: Svarochneye proizvodstvo, no. 11, 1964, 1-4

TOPIC TAGS: weld joint, filler metal, parent metal, mechanical property, fatigue strength

ABSTRACT: The effect of variable stress on the strength of weld joints with appreciable inhomogeneity was investigated in 40Kh type steel serving as parent metal for welds with soft fillers and as a hard filler metal, and in St.3 type steel used as parent metal with hard fillers and as a soft filler metal. The fatigue strength of the two types of steel specimens was 35.5 kg/mm² and 19.5 kg/mm² respectively. All specimens were hardened and tempered at 840 C and 400 C. The conspicuous difference in the mechanical properties of a weld joint with a hard filler and soft parent metal did not affect the fatigue strength. In specimens and 1/2

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ACCESSION NR: AP4049506

with a soft layer, the strength of the filler metal was decisive whenever the thickness exceeded 0.75 of the 20 mm diameter of the specimens. A decrease in the relative filler thickness below a critical thickness enhanced the resistance to weld fatigue. Apparently, this effect resulted from the state of stress that expands throughout the filler metal. Surface machining had a beneficial effect on fatigue strength of specimens with a soft filler whatever its thickness. In specimens with a thin filler metal, the fatigue strength of the work-hardened filler approximated that of the parent metal. The findings of the authors hold for inhomogeneous weld joints without stress centers and it may be assumed that the presence of such centers would change the pattern of stress propagation.

Orig. art. has: 8 figures and 1 table.

ASSOCIATION: Tenlitmash

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ENCL: 00

SUB CODE: MM
Card 2/2

NR REF SOV: 006

OTHER: 000

。 1985年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,19

SOV/124-57-5-5735

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 95 (USSR)

Kudryavtsev, P. I. AUTHOR:

On the Use of the Similarity Hypothesis and the Dimensional Theory in the Study of a Uniform Turbulent Flow (O primenenii gipotezy TITLE:

podobiya i teoriya razmernostey pri izuchenii ravnomernogo

turbulentnogo potoka)

PERIODICAL: Tr. Novosibir. inzh.-stroit. in-ta, 1955, Vol 5, pp 3-58

ABSTRACT: The author undertakes a detailed analysis of the velocity-distribution and resistance-law equations associated with the semiempirical theo-

ries of Prandtl and Karman. An attempt is made to allow for the effect of viscosity by resorting to a mean-velocity similarity hypothesis. The concept of similarity is examined for self-similar and non-self-similar conditions. As a result, the author evolves formulas

containing new empirical constants. Bibliography: 21 references.

Ye. M. Minskiy

Card 1/1

82186

S/124/59/000/011/010/017 A005/A001

10,4000

Translation from: Referativnyy zhurnal, Mekhanika, 1959, No. 11, p. 138, # 13746

AUTHOR: Kudryavtsev, P.I.

TITLE: An Approximate Solution of the Problem of Velocity Distribution in

a Turbulent Flow

PERIODICAL: Tr. Novosibirsk. inzh.-stroit. in-ta, 1957, Vol. 6, pp. 39-51

TEXT: The author suggests the formula:

 $\varphi = 6.2 \text{ lg } (\eta + 0.5 \varphi - 0.79) + c_1$ $(\varphi = \frac{u}{u_*}, \eta = \frac{u_* y}{v})$

for the velocity distribution in a uniform turbulent flow in tubes, which is obtained by simplifying the correlations derived earlier (Tr. Novosib. inzh.-stroit. in-ta, 1955, Vol. 5, pp. 3-58 - RZhMekh, 1957, No. 5, 5735). There us the velocity at distance y from the tube wall, u, is the dynamic velocity, vis the kinematic liquid viscosity coefficient. In the author's opinion, this

Card 1/2

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82186 S/124/59/000/011/010/017 A005/A001

An Approximate Solution of the Problem of Velocity Distribution in a Turbulent Flow

formula taking into account the liquid viscosity effect agrees better , for small Reynolds numbers, with the experimental data obtained by Nikuradse and Gurzhiyenko than the Prandtl formula. The author recommends to take

 $\varphi = 4.25 + 6.16 \lg \eta$

for large η values (for hydraulically smooth tubes).

A.D. Al'tshul'

X

Card 2/2

KUDRYAVISEV, P.I., prof., dr. tekhm. nauk

Calculating pipes and cenals by the equivalent roughness method. Sbor. nauch. trud. Dnepr. inzh.-stroi. inst. 18:3-32 '61 (MIRA 17:37)

Nonsteady movement of a fluid in open prismatic channels. Told.:79-87

10-1200

S/124/63/000/001/019/080 D234/D308

AUTHOR:

Kudryavstev, P.I.

TITLE:

Formulas for determining the resistance to the

motion of a liquid in pipes.

PERIODICAL:

Referativnyy zhurnal, Mekhanika, no. 1, 1963, 55, abstract 13334 (Izv. vyssh. uchebn. zavedeniy. Str-vo i arkhitekt. 1962, no. 2, 71-73)

Starting with a previously obtained formula for the velocity profile in uniform turbulent flow in smooth pipes (P.I. Kudryavtsev, Tr. Novosib. inzh. stroit. in-ta, 1957, v. 6, 39-51-RZh-Kudryavtsev, Tr. Novosib. inzh. stroit. in-ta, 1957, v. 6, 39-51-RZh-Kekh., 1959, no. 11, 13746), the author proposes a formula to determine the hydraulic friction coefficient λ of hydraulic smooth pipes in the form

 $\frac{1}{\sqrt{\lambda}}$ = 2.12 lg (R $\sqrt{\lambda}$ + $\frac{100}{3\sqrt{\lambda}}$ - 17.2) - 1.33

where R is the Reynold's number referred to the diameter of the pipe. Card 1/2

CIA-RDP86-00513R000827220003-7" **APPROVED FOR RELEASE: 07/12/2001**

Formulas for determining

S/124/63/000/001/019/080 D234/D308

This formula does not practically differ from the well-known Prandtl-Nikuradze formula for the resistance of smooth pipes.

Abstracter's note: Complete translation

Card 2/2

11,207

S/021/62/000/011/005/013

D251/D308

AUTHOR:

Kudryavtsev, P. I.

TITLE:

On the steady smoothly-changing motion of liquid in

prismatic channels

PERIODICAL:

Akademiya nauk Ukrayins koyi RSR. Dopovidi, no. 11,

1962, 1441-1442

TEXT: The author proposes a more exact method of deriving the equations of motion for the above-named problem, in which it is assumed that the loss of pressure-head h depends not only on the distance s but also on the depth h. The equations

$$\frac{i_0 ds}{h_0} = \frac{\chi^2 - \bar{1}}{\chi^2 - 1} d\eta$$
 (3)

is obtained as an exact result, where i is the inclination of the

Card 1/3

(8)

On the steady ...

S/021/62/000/011/005/013 D251/D308

channel, h_0 is the normal depth, χ is the relative loss modulus, η is the relative depth, $j={\rm const.}$ By taking $\eta=a_0+a_1\log\chi$ as a suitable approximating function, according to the approximate index dependence of S. A. Bakmetev, Eq. (3) is integrated. Comparison with Pavlov'skyy's linear approximation leads to the more exact approximating function $\eta=a_0+a_1\log\chi+a_2\chi$, which gives

$$\frac{i_0 L}{h_0} = \eta_2 - \eta_1 - (1 - \bar{j}) \left[a_2 (\eta_2 - \eta_1) + a_1 (P_2 - P_1) \right]$$
(7)

where ∏ is Pavlov'skyy's function and

$$\Pi = 1.151 \, \lg \frac{1 + \chi}{1 - \chi}$$

Card 2/3

On the steady ..

\$/021/62/000/011/005/013

$$P = \lg \frac{\chi}{\sqrt{\chi^2 - 1}}$$

Graphical and computational means of evaluating the parameters ao, a₁, a₂ are indicated. The method is more precise than other approximate methods and leads to very simple results.

ASSOCIATION:

Dnipropetrovs'kyy inzhenerno-budivel'nyy instytut (Dnipropetrovs'k Institute of Civil Engineering)

PRESENTED:

by H. Y, Sukhomel, Academician

SUBMITTED:

February 12, 1962

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000827220003-7"

KUDRYAVISEV, P.I., inzh.

Fatigue resistance of welded joints in high-strength cast iron. Svar. proizv. 12:1-5 D '63. (MIRA 18:9)

l. TSentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya.

KUDRYAVTSEV, P.I., inzh.; GEL'MAN, A.S., doktor tekhn.nauk

Effect of the mechanical heterogeneity on the fatigue strength of welded joints. Svar.proizv. no.ll:1-4 N '64.

(MIRA 18:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya.

ACC NRI

AM5001715

Monograph

UR/

Kudryavtsev, P. I.

Residual welding stresses and the strength of welded joints (Ostatochnyye svarochnyye napryazheniya i prochnost' soyedineniy) Moscow, Izd-vo "Mashinostroyeniye", 1964. 93 p. illus., biblio. 4500 copies printed.

TOPIC TAGS: welding, residual welding stress, stress removal, weld, weld strength

PURPOSE AND COVERAGE: This book is intended for engineering personnel engaged in welding. It reviews in detail the causes of residual welding stresses and methods of their determination. The effect of residual stresses on the strength of welded joints and structures is discussed. Methods of removing residual stresses and decreasing their effect on the weld strength are described.

TABLE OF CONTENTS:

Introduction -- 3

Ch. I. Residual welding stresses and their causes -- 4

Card 1/2

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ACC NR: AM5001715

Ch. II. Methods of determining residual welding stresses -- 14

Ch. III. Examples of the distribution of residual stresses in welded joints and structures -- 44

Ch. IV. Methods of removing residual stresses -- 86

Qonelusion -- 86

Bibliography -- 89

SUB CODE: 13/ SUBM DATE: 17Mar64/ ORIG REF: 094/ OTH REF: 017/
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KUDRYAVTSEV, P.M.; TRANTIN, V.I.

Flushing of the cooling system of rectifiers with an inhibited acid. Elek. i tepl. tiaga no.5:16-17 My *63. (MIRA 16:8)

1. Nachal'nik 16-go uchastka energosnabzheniya Moskovskoy dorogi (for Kudryavtsev). 2. Nachal'nik tyagovoy podstantsii Krivandino (for Trantin).

(Electric current rectifiers—Cooling)